BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

IT235 –Introduction to Object Oriented Programming Assignment 01



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35C | WD | 23 | 44 | 06 W.I.G. A.D.D Bandara 1 * Object toriented programming (Coop) is a program ming paradigm based on the Concept of Objects that can contain data and code Data is in the form of fields Often called attributes or properties and code is in the form of procedures often called methods, or regul ic colo a to stronger III. Demonda alto por all رحون والع علمان بمورداق 2* class -> A class is a bluepoint or template that defines the properties Cattributes) and behaviors methods of an Object. It does not consume memory until an Object is created of Ashers O bollow on osciolad Object -> An Object is an instance of a class when you create an Object , you allocate men ory and can interact with the properties and behaviours defined by the class. In Class Car & Stoing Color; alde Class intespecalo jeta do la co void accelerate co speed + 12 10; gristingdai contraction to class: Car is a class Car my Colore new Car Co;

activities (2 MI) Det
, outhors c.c.A.o.l.o.
3* Instance Variable -> These are pariables defined in a
Separate Copy Don ablant to mich
Static Variable - There are variables defined with
the static keyword. All Objects of a class Share
defined the Contributed and only and account
4 x a) Tour of the band on their western
Inheritance in Method Overriding Since a method of a subclass Overrides a method of a
Superclass of the state with users
b) false of all the parater are
All variables defined in a class do not have memory allocated for each Object.
C) True -> 3 100 30010
A static variable is actually shared by all Objects of a class.
posterior to the second
5* a) inheritance: inheritance allows a new class Subclass to inherit properties and behavio
from an existing class superclass.
class uchicles &
o intespeeds in the second
oold accelerate C) {
speed + = 10;3

Car extends & int wheels = 4; b) polymorphism: polymorphism allows Objects of different classes to be treated as Objects of a common superclass. class Animal 5 world Sound CD fine System Out . println ("Animal makes a sound"); Class Dog extends Animal & void sound () S System Out println (The dog is barking!); 02. Java is platform - independent due to its "write Once our anywhere "philosophy . Java code is comp iled into bytecode, which can be executed on any platform with a java virtual Machine

9* 5 3* first statement is true and 2rd statem nt is true so the Evaluation - ture. b) first statement false and second statement false so the Evaluation - false c) first statement true and ord statement true. so the Evaluation - ture. 4x importo java util Scanner ; Class gouservices & public static void main Cstring [] args) & Scanner Gi = new Scanner Csystem In); System. Out. print C" Enter hotline: "); int hotline = Gi. nextint (). grawitch Chatline Dal & got and a willing a wol Case jaia sida ordena ... System Out, print C" Government Informa tion Eenter ")

break; System out point ("women help line "); break; Case 1996) System. Out point C"Reporting Human Rights issues"); boook default; System Out print C" unknown Number"); Gi. close co; OS. Accese Modifiers Control the access to the attaibutes and methods in a class. default public private protected

default -If any acess modifier is not specified then the corresponding attribute or metho de has default access. Allows an attribute or mothod to be acce public ssed in any other class. 1x The Super Keyword in java is a reference was able which is used to sefer immediate pare nt class Object. 3 - false True falso and the second of the delication of the design of the second 4* To initalize the new Object's Instance varia bles. The constauctor that is automatically general ted by the compiles in the absence of any oprogrammer defined Constructors